OPERATING INSTRUCTIONS & SERVICE MANUAL

AM/FM STEREO TUNER

SANSUI TU-9500



Sansui SANSUI ELECTRIC CO., LTD. We are grateful for your choice of the TU-9500 AM/FM Stereo Tuner.

For over a quarter of a century, Sansui has been building hi-fi audio equipment, and nothing else. Our mission is very old and at once ever new to use: to bring the reproduced sound closer and closer to the original.

The TU-9500 now in your hands is one answer from us to this never-ending quest. It is a product of the cream of highly advanced modern audio-electronics knowhow, coupled with our long experience. As such, we present it to you with our full confidence. It offers a multitude of high-performance features, among which are: a sensitive FM frontend utilizing 3 dual-gated MOS FET's and a 5gang variable capacitor; a low-distortion FM IF amplifier with four bi-resonator ceramic filters and three IC's; a multiplex circuit employing a differential demodulator for improved separation and phase linearity; a sensitive and selective AM tuner with an RF stage and a ceramic filter; a multi-path terminal for correct installation of an FM antenna, and a discriminator output terminal for receiving future discrete 4-channel broadcasts. It also has such refinements as an FM muting switch, an FM/AM noise suppressor switch, two large tuning meters, an FM muting level control, and an FM-75 Ω COAXIAL CABLE terminal.

This manual has been prepared to guide you in operating and caring for the tuner correctly, so that you will obtain the most out of its built-in high performance.

May we suggest that you read it once carefully?

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SWITCHES AND CONTROLS

Signal and Tuning Meters -

Tune in the desired station while watching these meters.

If you are tuning in an FM station:

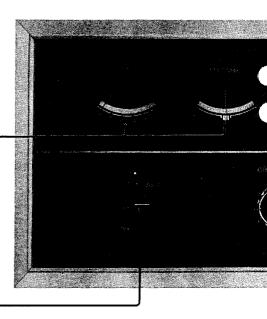
Adjust the Tuning Control first for maximum deflection of the Signal Meter on the left. Then adjust it so that the Tuning Meter on the right will indicate the exact center. The tuner will pinpoint the station and receive it with the best tone quality.

If you are tuning in an AM station:

Simply adjust the Tuning Control for maximum deflection of the Signal Meter. Ignore the Tuning Meter when tuning on AM.

AM Indicator —

Lights when the Selector Control is set to AM.



Power Switch -

Pull up to ON to turn on the tuner.

Output Level Control -

Adjusts the output signal level of the tuner. Turn clockwise to increase it.

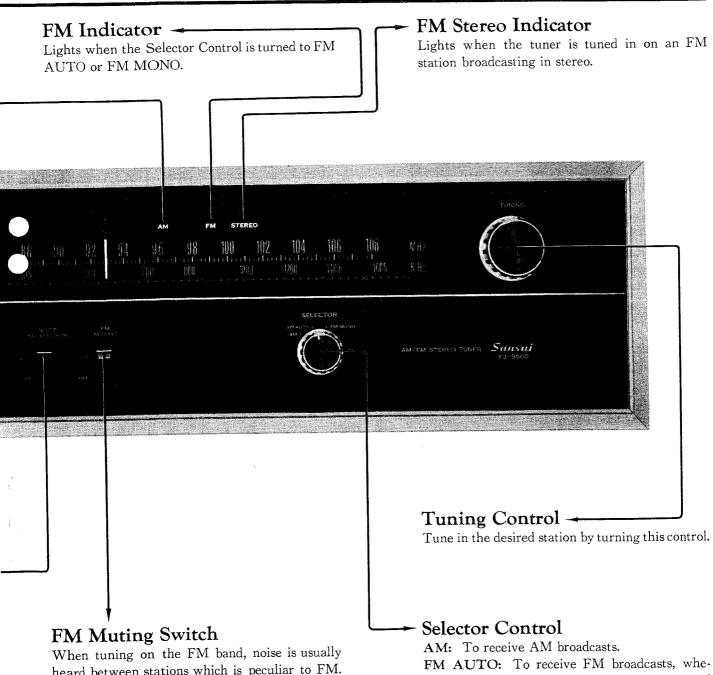
Important

As a rule, it is better to use the Output Level Control to match the tuner's output signal level with those of your turntable and tape deck, then adjust the over-all volume with the volume control of your amplifier.

Noise Suppressor Switch

Push down to IN if loud noise is mixed with an FM stereo or AM broadcast. Noise will be suppressed and the broadcast will sound more pleasant to hear.

If you hear no noise, be sure to keep it at OUT.



When tuning on the FM band, noise is usually heard between stations which is peculiar to FM. Setting this switch to ON cuts off that noise and lets you tune quietly.

If you are trying to tune in a weak station, however, setting the switch to ON may cause the tuner to miss it. In that case, it is better to push the switch down to OFF and then tune. FM AUTO: To receive FM broadcasts, whether stereo or mono. When the broadcasts signal changes from mono to stereo, the tuner will automatically switch itself to stereo reception.

FM MONO: If the FM stereo reception is too noisy for pleasant listening, set the control to this position. The broadcast will be received in mono but the noise will substantially decrease.

CONNECTIONS / OPERATION

Connecting Antennas

The quality of reception depends pretty much on the effectiveness of the antennas. Connect and install them correctly for noise-free pleasant reception.

AM Antennas

AM Ferrite Bar Antenna

The sensitive AM ferrite bar antenna provided on the tuner's rear panel provides a clear AM reception in most areas. To use, simply pull it out as illustrated.

Outdoor AM Antenna

Should the bar antenna fail to give you a clear reception, however, connect a piece of polyvinyl wire supplied to the AM-A terminal on the tuner's rear panel and stretch it outside a window or on the roof. Still better results would be obtained by grounding the tuner.

FM Antennas

T-shaped Feeder Cable Antenna

If you live relatively close to FM stations, quality reception can be usually achieved by just installing the T-shaped feeder cable antenna supplied with the tuner. Connect it to the tuner's FM $300\,\Omega$ terminals, referring to the diagram at right. Stretch the antenna to a complete T shape, then prepare the tuner for FM reception. Adjust the height and direction of the antenna while actually listening to your favorite FM station.

Outdoor FM Antenna (also see page 7)

If the T-shaped feeder antenna fails to eliminate noise and otherwise give you good sensitivity, install an exclusive FM antenna outdoors. Such an antenna is usually available with either 3, 5 or 7 elements. Generally speaking, the more elements an antenna has, the more sensitive and more directional it is. The rule of thumb is to select one that best suits the needs of your area, and it is recommended to consult your electric appliance dealer. When setting up the antenna, observe the following precautions:

1. As an antenna is directional, adjust its direction while actually listening to your favorite FM station and fix it where it offers the best reception (refer to pages 9 and 10).

- **2.** In order to avoid automobile ignition noise, set it up as far away from streets as possible.
- **3.** Be absolutely sure that it does not contact electric cable and other objects.
- **4.** Be also sure to secure the antenna firmly with the help of the accessory parts supplied with the antenna.

Connect the outdoor antenna to the tuner with feeder cable, connecting the cable to the FM-300 Ω terminals on its rear panel. Keep the cable as short as possible, and secure it with clamps and standoffs at proper points. Try to keep away from metallic objects.

If automobile traffic is heavy around your house and the antenna picks up the ignition noise, it is recommended to use coaxial cable instead of feeder. Refer to pages 7 and 8 for connecting instructions.

Connecting to an Amplifier

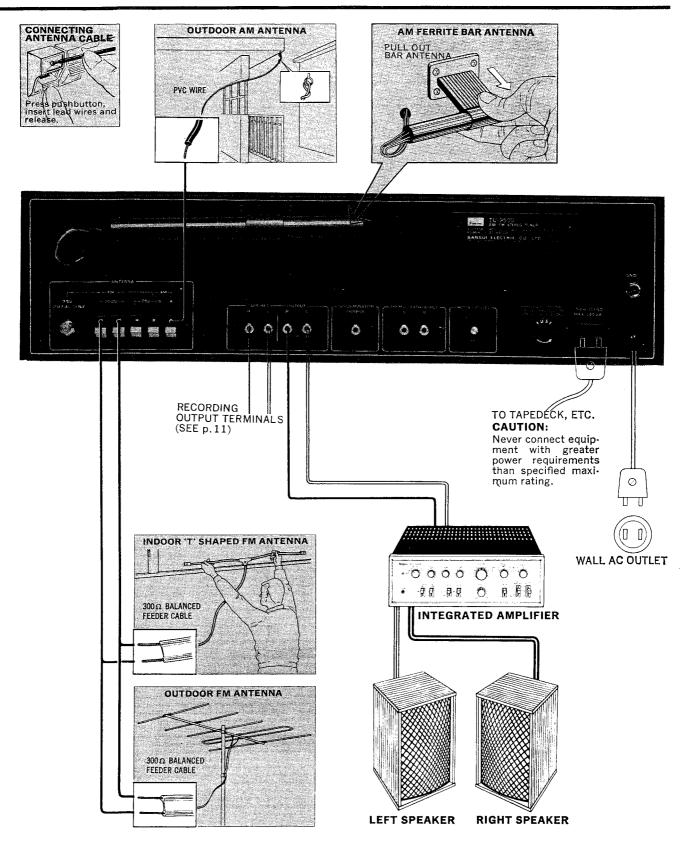
Connect the OUTPUT terminals of the tuner with the TUNER or AUX terminals of your amplifier (integrated amplifier or preamplifier), using the pair of pin plug cables supplied, as illustrated.

FM Reception

- 1. Set the Selector Control to FM AUTO.
- **2.** Tune in the desired station by turning the Tuning Control. It is pinpointed when the Signal Meter pointer has swung as far to the right as possible and the Tuning Meter pointer is accurately centered.
- **3.** If a stereo broadcast is too noisy, push the Noise Suppressor Switch down to IN. If noise still persists, turn the Selector Control to FM MONO and hear the broadcast in mono.

AM Reception

- 1. Set the Selector Control to AM.
- **2.** Select the desired station by adjusting the Tuning Control so that the Signal Meter pointer will swing as far to the right as it will go near the frequency of that station.
- **3.** If the broadcast is too noisy, push the Noise Suppressor Switch down to IN.



CONNECTING OUTDOOR FM ANTENNA WITH COAXIAL CABLE

An outdoor FM antenna my be connected with coaxial cable to the tuner's FM-75 Ω terminals, or to its exclusive 75 Ω COAXIAL CABLE terminal utilizing the special connector supplied.

An FM antenna may have an impedance of $300\,\Omega$ or $75\,\Omega$. Since coaxial cable itself has an impedance of $75\,\Omega$, it is necessary that your antenna has the same impedance. If it is a $300\,\Omega$ type, an impedance matching transformer (commercially available) that reduces $300\,\Omega$ to $75\,\Omega$ needs to be inserted between the antenna and the coaxial cable.

FM-75 Ω Terminals

Connect the shield of the coaxial cable to the G terminal.

75Ω COAXIAL CABLE Terminal

Use the special connector supplied to connect coaxial cable to this terminal.

How to Connect Coaxial Cable to Connector

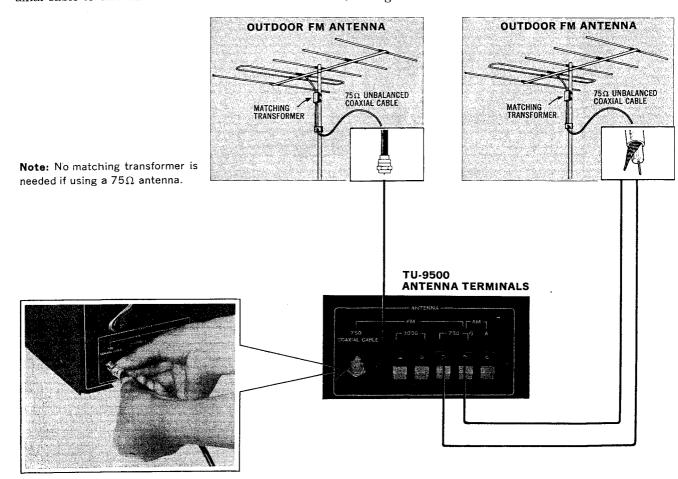
Preparation

- **1.** Take out the connector and ring from the accessory parts bag.
- **2.** Keep the required length of coaxial cable on hand. Different types of coaxial cable are commercially available, but use the type called the 3C-2V. This type is sometimes available either with a stranded core wire or a single core wire, but be sure to use the latter kind.
- 3. Prepare a knife, nippers and pliers.

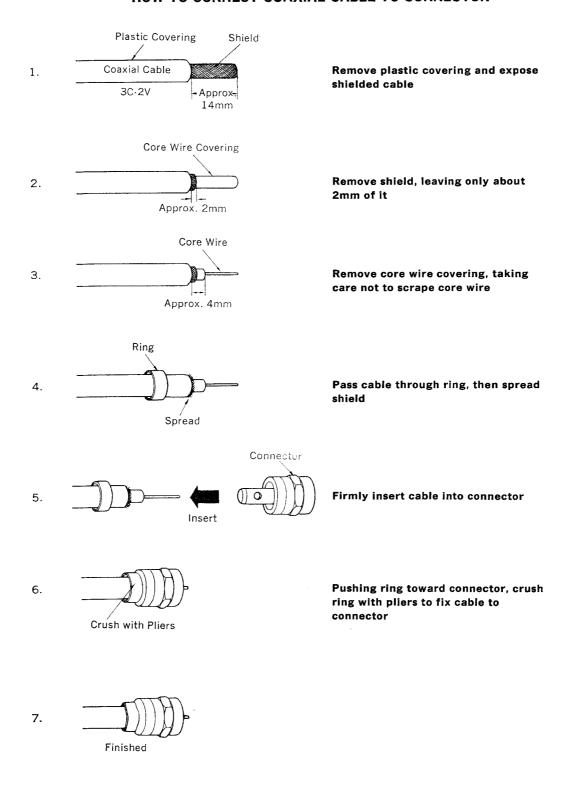
Procedure

Connect the coaxial cable to the connector as instructed in the diagram at right.

Note: When connecting the connector to the $75\,\Omega$ COAXIAL CABLE terminal, hold the coaxial cable still with fingers of one hand and turn the tightening nut with the other hand.



HOW TO CONNECT COAXIAL CABLE TO CONNECTOR



HOW TO INSTALL OUTDOOR FM ANTENNA CORRECTLY

How to Use Multi-Path Terminals

As the radio wave used for FM broadcast is of high frequencies, it possesses a natural tendency to advance straight ahead and be reflected by various obstacles just as a light beam does. As a result, an antenna receives both the radio wave arriving directly from the broadcast station and the waves reflected by nearby mountains, tall buildings and so forth. This phenomenon is called a multi-path reception.

When this condition is present, the radio waves interfere with one another and cause amplitude and phase modulations, which result in distortion and reduced separation. To minimize this condition, it is necessary to select an antenna with good directionality and also direct it correctly.

The multi-path condition can be visually observed by connecting an oscilloscope to the FM MULTI-PATH OUTPUT terminals on the rear panel of the tuner, so that you may install the antenna in the correct direction.

The two terminals (indicated as V and H) deliver the output signals described below:

V: Delivers the detector output of signals amplitude-

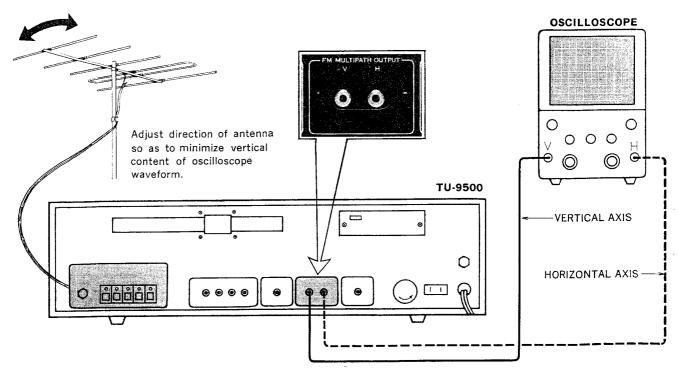
modulated by the multi-path phenomenon, if any. If no multi-path phenomenon exists, no output will be provided.

H: Delivers the tuner's discriminator output signal, whose level changes with the level of the original audio signal.

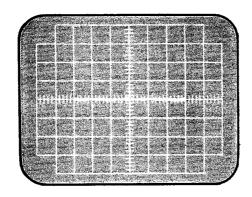
How to Connect and Operate an Oscilloscope

- **1.** Connect the oscilloscope to the FM MULTI-PATH OUTPUT terminals as indicated in the diagram below—namely, its vertical axis to the V terminal and its horizontal axis to the H terminal.
- **2.** Tune in your favorite FM station accurately while watching the two tuning meters, and actually receive it.
- **3.** Observe the waveform on the oscilloscope. Set the vertical axis sensitivity of the oscilloscope to 10 mV/cm while raising its horizontal axis sensitivity to an optimum level.
- **4.** Adjust the position and direction of the antenna and fix it where the height of the waveform is minimized.

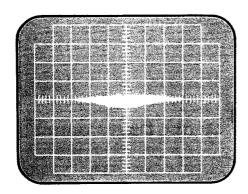
See a sample oscilloscope waveform on the next page.



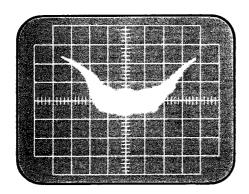
SAMPLE OSCILLOSCOPE WAVEFORMS OF MULTI-PATH PHENOMENON



When no multi-path phenomenon exists



When a slight multi-path phenomenon exists



When a serious multi-path phenomenon exists

SIMPLE MAINTENANCE HINTS

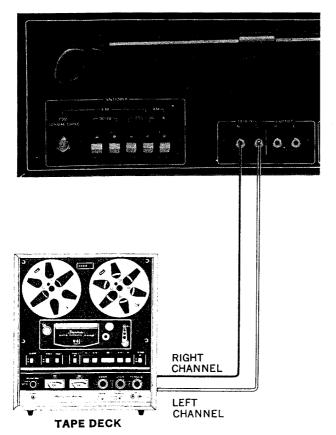
Recording into a Tape Deck

Radio broadcast can be recorded by connecting a tape deck to the tuner.

Connect the TAPE REC terminals on the rear panel with the recording inputs of a tape deck (often indicated as LINE INPUT), utilizing shielded cables with pin plugs.

How to Record

- 1. Tune in the desired station.
- **2.** Engage the tape deck in the recording mode. The signal level at the TAPE REC terminals is constant regardless of the OUTPUT LEVEL control on the front panel. Adjust the recording level with controls on your tape deck.



GND Terminal

Normally it is unnecessary to connecting anything to the GND terminal on the rear panel. If considerable noise or hum is heard with the reception, however, connect one end of enameled or vinyl-coated wire to this terminal, then connect its other end to the household water piping (lead) or attach a copper plate to it and bury it underground. Noise may decrease. The G antenna terminal may also be used for the same purpose.

Note: Never connect the GND terminal with the household gas piping, as it is very dangerous.



Muting Level Control

This rear-panel control adjusts the working level of the FM muting circuit. Normally there is no need to touch it, but adjust it in these instances:

1. Turn it counterclockwise if the desired FM station(s) is cut off and cannot be received when

you turn on the FM Muting Switch.

2. Turn it clockwise if you wish to receive only strong stations.



Discriminator Output Terminals

Four-channel stereo is fast becoming popular as a means of reproducing the live sound field. Four-channel stereo FM broadcasts are already underway in some areas of the world using matrix four-channel systems, but the discrete 4-channel system will also be introduced to FM in the future.

To receive discrete 4-channel stereo FM broadcasts, you will need an adaptor in addition to the TU-9500. The DISCRIMINATOR OUTPUT terminal on the tuner's rear panel is for connecting such adaptor.



Should the Power Fuse Blow

If the dial fails to glow and the tuner remains dead when you turn on the Power Switch, it is possible that its power fuse has blown.

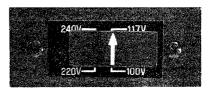
Should this happen, disconnect the power cord from the wall AC outlet at once and examine the power fuse on the rear panel. If you find it blown, find out the cause of the blowout and eliminate it, then replace the blown fuse with a new glass-tubed fuse of the rated capacity (1-ampere for 100/117 volt operation, 0.5-ampere for 220/240 volt operation). Never use a fuse of a different capacity or a piece of wire, even as a stopgap measure, or serious danger could result.



Voltage Adjustment

The TU-9500 is equipped with a Voltage Selector so that it may be used anywhere in the world. It is set to the correct voltage of your area prior to shipment from our factory, and there is no need to touch it. But if you move after purchasing the tuner and find the power supply voltage is different, reset the selector as follows:

- 1. Remove the two screws securing the name plate on the rear panel, then remove the name plate.
- **2.** Unplug the Voltage Selector once, and reset it so that the arrow mark on it faces the correct voltage indication.
- **3.** Change the power fuses as well whenever the voltage has changed. For 100-117 volt operation, use a 1-ampere glass-tubed fuse. For 220-240 volt operation, use a 0.5-ampere one.
- **4.** Where the power supply voltage considerably fluctuate, the Voltage Selector may be reset to avoid the unpleasant side effects of such fluctuation. Reset it to the voltage immediately higher than the peak of the fluctuation.



Servicing

Should anything ever go wrong with your TU-9500 or if you have any question about it, please contact the Sansui dealer from whom you purchased it or your nearest Authorized Sansui Service Station.

GENERAL TROUBLESHOOTING CHART

Many of the troubles which seem to be a fault of the tuner may be caused by wrong operation or by outside devices. These can be easily corrected by simple checking and easy remedies. If you notice a condition which looks like a breakdown of the tuner, examine the various connections and your operating procedure once, then look up the condition in the following chart to see if it cannot be easily removed. If this fails to improve the situation and the tuner definitely seems faulty, please contact the Sansui dealer from whom you purchased the tuner or your nearest Authorized Sansui Service Station.

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM, FM or MPX reception	Constant or intermit- tent noise heard at times or in certain areas.	* Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, D.C. motor, rectifier or oscillator. * Natural phenomena, such as atmospheric, static or thunderbolts. * Insufficient antenna input due to ferroconcrete wall or long distance from station.	* Attach noise limiter to electrical appliance producing noise, or attach it to tuner's power source. * Install outdoor antenna and ground tuner to raise S/N ratio. * Reverse power cord plug/receptacle connections. * If noise occurs at certain frequency, attach wave trap to input. * Keep tuner at proper distance from other electrical appliances.
FM reception Noisy. * Poor noise limiter effect or too low S/N ratio due to insufficient antenna input. Note: FM reception is affected considerably by transmitting conditions of station, such as power and antenna efficiency. As a result, you may receive one station quite well while receiving another station poorly.		* Install antenna (supplied) for maximum signal strength. * If this does not prove effective, use exclusive FM outdoor antenna. * Excessively long lead-in wire of antenna may cause noise.	
	A series of pops. Tuning noise between	* Ignition noise caused by starting of nearby automobile engine. * Results from nature of FM	* Install antenna and its lead-in wire at proper distance from street or increase antenna input. * Turn on FM Muting Switch.
	station.	reception. * FM Muting Switch at OFF.	* Ditto.
FM-MPX reception	Noise heard during FM-MPX reception but inaudible during FM mono reception.	* Weaker signal because service area of FM-MPX broadcast is only half that of FM mono broadcast.	* Orient antenna for maximum antenna input. * Set Noise Suppressor Switch to IN position.
AM reception	Noise heard at particular time of day, in certain area or over part of dial.	* Peculiar to AM broadcasts.	 * Install antenna for maximum antenna efficiency. See 'AM Antennas'. * Set Noise Suppressor Switch to IN position. * In some cases, noise can be eliminated by grounding tuner or reversing power cord plug/receptacle connections.
	High-frequency noise.	* Beat interference by adjacent station. * TV set too close to stereo systems.	 * Turn on amplifier's High Filter. * Set Noise Suppressor Switch to IN position. * Keep TV set at proper distance from stereo system.

SPECIFICATIONS / ACCESSORIES

FM SECTION 88 to 108MHz TUNING RANGE: 1.7*μ*V SENSITIVITY (IHF): QUIETING SLOPE: 40dB $1.7\mu V$, 50dB $3\mu V$, 60dB $10\mu\mathrm{V}$, 70dB $50\mu\mathrm{V}$ TOTAL HARMONIC DISTORTION (MONO): less than 0.2% less than 0.3% (STEREO): SIGNAL TO NOISE RATIO: better than 75dB SELECTIVITY: better than 80dB CAPTURE RATIO(IHF): 1.5dB IMAGE FREQUENCY REJECTION: better than 100dB IF REJECTION: better than 100dB SPURIOUS RESPONSE REJECTION: better than 100dB STEREO SEPARATION: better than 40dB at 400Hz, better than 30dB at 10,000Hz SPURIOUS RADIATION: less than 34dB ANTENNA INPUT IMPEDANCE: 300Ω balanced, 75Ω unbalanced FREQUENCY RESPONSE: 30 to 15,000Hz + 0.5dB, -2.0dB**AM SECTION** TUNING RANGE: 535 to 1,605kHz SENSITIVITY (Bar Antenna): 46dB/mSELECTIVITY: better than 25dB IMAGE FREQUENCY REJECTION: better than 100dB/m at 1,000kHz better than 100dB/m at 1,000kHz IF REJECTION: **OUTPUT:** 0 to 1V REC OUTPUT: 0.4V **CONTROL AND SWITCHES:** SELECTOR: AM, FM AUTO, FM MONO FM MUTING: ON, OFF NOISE SUPPRESSOR: OUT, IN **SEMICONDUCTORS:** 44 Transistors, 5 FETs, 28 Diodes, POWER REQUIREMENTS: POWER VOLTAGE: 100, 117, 220, 240V 50/60Hz POWER CONSUMPTION: 25VA (Max.) 20W (Rated)

500mm, 19¹¹/₁₆" W.

140mm, $5\frac{9}{16}''$ H. 347mm, $13\frac{11}{16}''$ D.

9.5kg (20.8 lbs)

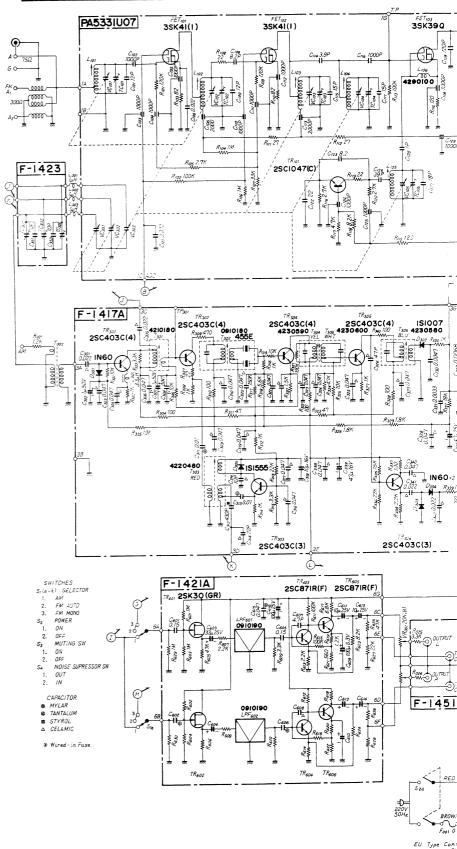
DIMENSIONS:

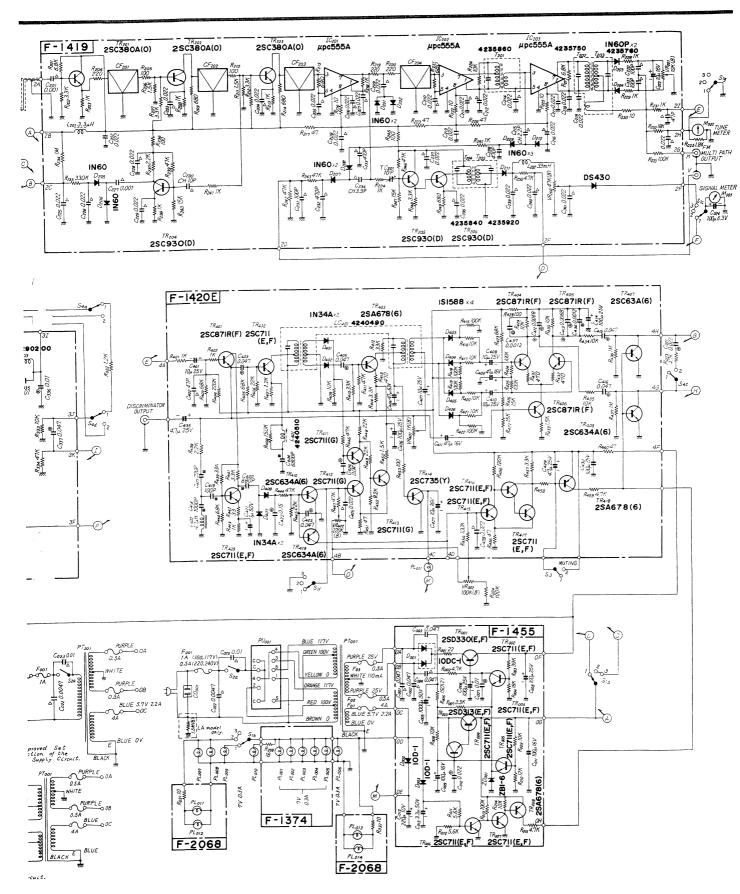
WEIGHT:

ACCESSORIES

1.	FM Antenna	1
2.	AM Antenna	1
3.	Connection Cable with Pin Plugs	2
4.	Polishing Cloth	1
5.	Butterfly Bolts	2
6.	Washers	2
7.	Operating Instructions and Service Manual	1
8.	Operating Instructions Sheet	1

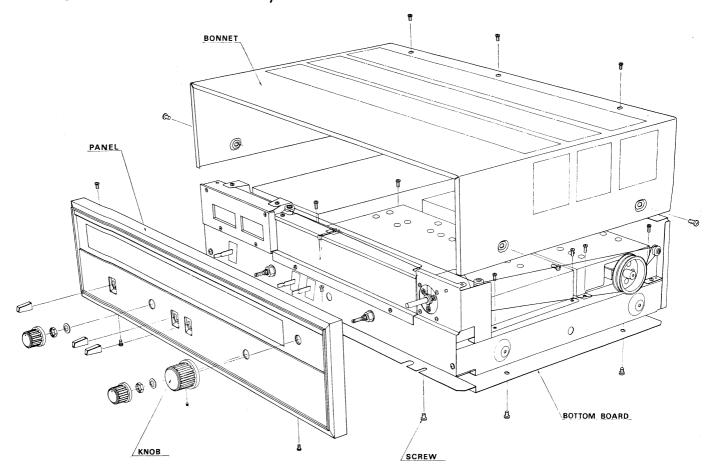
SCHEMATIC DIAGRAM



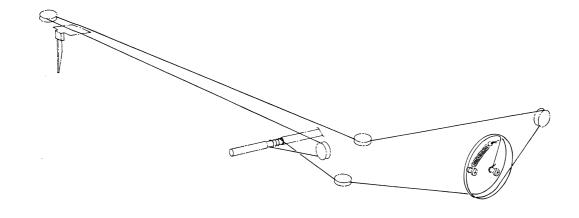


DISASSEMBLY PROCEDURE

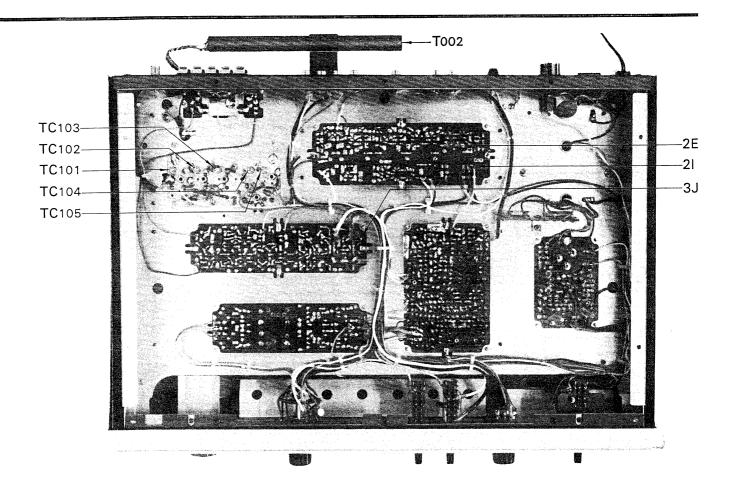
REMOVING FRONT PANEL, BONNET AND BOTTOM BOARD

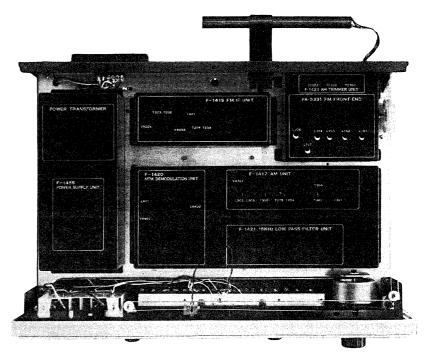


DIAL MECHANISM



TEST POINTS





It is unnecessary to remove cover for printed circuit board when making alignments. Part numbers required for making alignments are indicated on cover.

ALIGNMENT

FM TUNER SECTION

	FEED SIG	FEED SIGNAL		MEASURE OUTPUT		ADJUST	ADJUST FOR
STEP	FROM	то	AT	WITH	CONTROL TO	ADJUST	ADJUST FOR
1.	Sweep generator 10.7MHz ±200kHz (output 60dB)	2A (via 10pF ceramic capacitor)	2I	Oscilloscope		T ₂₀₂ , ₂₀₃	S curve
2.	Sweep generator 10.7MHz ±200kHz (output at limiter point)	2A (via 10pF ceramic capacitor)	2E	Oscilloscope		T ₂₀₄ , ₂₀₅	Match centers of S curve and out- put waveform of meter(see Fig. 1)
3.	FM signal generator 98MHz (400Hz 100% mod., output 60dB)	Antenna terminal	Output terminal	Oscilloscope & V.T.V.M.	98MHz	L ₁₀₇ , T ₂₀₁	Max. output
4.	FM signal generator 98MHz (400Hz 100% mod., output:60dB)	Antenna terminal	Output terminal	Oscilloscope & distortion meter	98MHz	T ₂₀₂	Min. distortion factor
5.	FM signal generator 88MHz (400Hz 100% mod.)	Antenna terminal	Output terminal	Oscilloscope & V.T.V.M.	88MHz	L ₁₀₅	Max. output
6.	FM signal generator 108MHz (400Hz 100% mod.)	Antenna terminnl	Output terminal	Oscilloscope & V.T.V.M.	108MHz	TC ₁₀₅	Max. output
7.	Repat steps 5, 6						
8.	FM signal generator 90MHz (400Hz 100% mod., output at limiter point)	Antenna terminnl	Output terminal	Oscilloscope & V.T.V.M.	90MHz	L ₁₀₁ , ₁₀₂ ₁₀₃ , ₁₀₄	Max. output
9.	FM signal generator 106MHz (400Hz 100% mod., output at limiter point)	Antenna terminal	Output terminal	Oscilloscope & V.T.V.M.	106MHz	TC ₁₀₁ , 102	Max. output
10.	Repeat steps 8, 9						

FM MPX SECTION

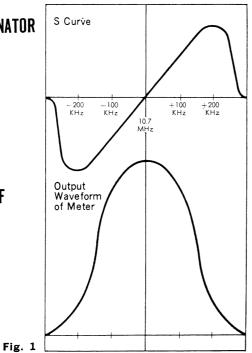
STEP	FEED SIGNAL		MEASURE OUTPUT		SET TUNING	ADJUST	ADJUST FOR
	FROM	то	AT	WITH	CONTROL TO	ADJUGI	ADJUSTION
1.	FM signal generator 98MHz & stereo signal generator (composite signal containing pilot signal, L ch. 40% mod.)	Antenna terminal	Output terminal (L ch.)	Oscilloscope V.T.V.M. & distortion meter	98MHz	L ₄₀₁	VR ₄₀₁ Center. Max. output, Min. distortion in L ch.
2.	FM signal generator 98MHz & stereo signal generator (composite signal containing pilot signal, L ch. 40% mod.)	Antenna terminal	Output terminal (R ch.)	Oscilloscope & V.T.V.M.	98MHz	VR ₄₀₁	Min. output in R ch.

AM TUNER SECTION

	FEED SIGNAL		MEASUF	RE OUTPUT	SET TUNING	ADJUST	ADJUST FOR
STEP	FROM	то	AT	WITH	CONTROL TO	ADJUST	ADJUST FUR
1.	Sweep generator 455kHz ±30kHz	Antenna terminal	3J (F-1417A)	Oscilloscope	Any frequency not occupied by broadcast stations	T ₃₀₂ , ₃₀₄ , ₃₀₅ , ₃₀₆	Best AM IF waveform (set Noise Suppressor SW to OUT)
2.	AM signal generator 535kHz (400Hz 30% mod.)	Antenna terminal	Output terminal	Oscilloscope & V.T.V.M.	535kHz	T ₃₀₃	Max. output
3.	AM signal generator 1600kHz (400Hz 30% mod.)	Antenna terminal	Output terminal	Oscilloscope & V.T.V.M.	1600kHz	TC ₃₀₂	Max. output
4.	Repeat steps 2, 3						
5.	AM signal generator 600kHz (400Hz 30% mod.)	Antenna terminal	Output terminal	Oscilloscope & V.T.V.M.	600kHz	T ₀₀₂ , 301	Max. output
6.	AM signal generator 1400kHz (400Hz 30% mod.)	Antenna terminal	Output terminal	Oscilloscope & V.T.V.M.	1400kHz	TC ₃₀₁ , ₃₀₃	Max. output
7.	Repeat steps 5, 6						

FM DISCRIMINATOR WAVEFORM

OUTPUT WAVEFORM OF METER



AM IF WAVEFORM

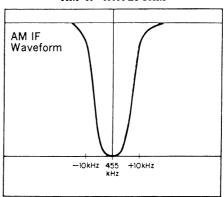


Fig. 2

PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

FM IF BLOCK (F-1419)

W		x	Y	z
R 201	6.8kΩ)		0106682	1, 2C
R202	3.3kΩ		0106332	1 C
R203	ıkΩ		0106102	1 C
R204	220Ω		0106221	1 C
R205	100Ω		0107101	1C
R206	1.5kΩ		0107152	1, 2C
R207	3.3kΩ		0106332	10
R208	ıkΩ		0106102	10
R209	680 Ω		0107681	1 C
R210	100Ω		0106101	1C
R211	1.5kΩ		0107152	1, 2 C
R212	3.3kΩ		0106332	1,2C
R213	ıkΩ		0106102	1 C
R214	Ω 086		0107681	1 C
R215	680Ω		0106681	1 C
R 216	10Ω		0107100	1 B
R 217	4.7 Ω		0107479	1,2C
R 218	1kΩ		0106102	1 B
R219	220Ω		0106221	1 B
R220	220Ω		0106221	1 B
R221	680Ω		0106681	1 B
R222	10Ω		0107100	1 B
R223	4.7 Ω		0107479	1, 2 B
R224	10kΩ		0107103	1 B
R225	10Ω	± 5% 1/4W C	R. 0107100	1 A
R226	4.7 Ω	(/ ,	0107479	1, 2 B
R227	6.8kΩ		0107682	1 A
R228	1kΩ		0106102	1 A
R229	1kΩ		0106102	1 A
R230	10Ω		0107100	1 A
R231	1kΩ		0107102	2 A
R232	18kΩ		0107183	2 A
R233	100kΩ		0107104	2 A
R234	1ΜΩ		0107105	2 C
R235	330kΩ		0106334	2 C
R236	100Ω		0107101	2 C
R237	2.2kΩ		0106222	2 C
R238	lkΩ		0106102	2C
R239	47kΩ		0107473	2 C
R240	15kΩ		0106153	2 C
R241	lkΩ		0107102	1,2C
R242	47kΩ		0106473	1 C
R243	47kΩ		0107473	1 C
R244	lkΩ		0107102	1, 2 B
R245	100Ω		0107101	2 B
R246	47kΩ		0106473	2 B
R247	15kΩ		0106153	2 B
R248	3.3kΩ		0106332	2 B
R249	680Ω		0106681	2 B
R250	4.7kΩ		0107472	2 B
R251	1kΩ)	0107102	1 B
		ENA Tuning Mater As		2 A
VR201	` '	FM Tuning Meter Ad FM Signal Meter Ad		2 A
VR202		-	•	
C201	0.001 μF		0657102	1, 2C
C202	0.001 μF	-30	0657223	1 C

w	x	Y	Z
C203	0.022 <i>μ</i> F)	0657223	1 C
C204	0.022 <i>μ</i> F	0657223	1 C
C205	0.022 <i>μ</i> F	0657223	1 C
C206	0.022 <i>μ</i> F	0657223	1 B
C207	0.022 <i>μ</i> F	0657223	1 C
C208	$0.022 \mu F$ $+80 \%$ 50V CC.	0657223	2 B
C209	$0.022 \mu \text{F} \left(-20\% \ 300 \ \text{CC} \right)$	0657223	1 B
C210	0.022 <i>μ</i> F	0657223	1 B
C211	0.022 <i>μ</i> F	0657223	1 B
C212	0.022 <i>μ</i> F	0657223	1 B
C 213	0.022 <i>μ</i> F	0657223	2 B
C214	0.022μF)	0657223	1 A
C215	2.2 pF 50V CC.	0669003	1 B
C216	0.022 <i>μ</i> F)	0657223	2 A
C217	$0.022 \mu F$ $+80 c$ 500	0657223	1 A
C218	$\begin{pmatrix} 0.022\mu F \\ 0.022\mu F \end{pmatrix} + \frac{80}{-20}\%$ 50V CC.	0657223	1 A
C219	0.022 μF)	0657223	1 A
C220	$100 pF$ $\pm 10\% 50V CC.$	0660101	1 A
C221	$\frac{100 \text{pF}}{100 \text{pF}} \pm 10\% 50V CC.$	0660101	1 A
C222	10μF 16V EC.	0512100	1 A
C223	$47 \text{pF} \pm 10\%$ 50V CC.	0660470	2 A
C224	0.022 μF)	0657223	2 A
C225	0.022 <i>μ</i> F	0657223	2 C
C226	$0.022 \mu F$ +80% 50V CC.	0657223	2 C
C227	$0.001 \mu\text{F} \left(-20\% \right) 300 \text{CC}.$	0657102	2 C
C228	0.022 <i>μ</i> F	0657223	2 C
C229	0.022 <i>μ</i> F	0657223	2 C
C230	$10 \text{pF} \pm 5 \% 50 \text{V} \text{CC}.$	0661100	2 C
C 231	100 pF)	0660101	1 C
C232	$470 \text{pF} \pm 10\% 50 \text{V} \text{CC}.$	0660471	1 C
C233	470 pF)	0660471	1 B
C234	3.9 pF 50V CC.	0669002	1 B
C236	0.022 μF) +80 α/ 50 / 60	0657223	2 B
C237	$\begin{pmatrix} 0.022 \mu \text{F} \\ 0.022 \mu \text{F} \end{pmatrix} + \frac{80}{20}\%$ 50V CC.	0657223	1 B
C238	470 pF ±10% 50V CC.	0660471	1 B
C239	0.022μF)	0657223	1 B
C240	$0.022 \mu F \begin{cases} +80 \\ -20 \% \end{cases}$ 50V CC.	0657223	2 A
C241	$0.022 \mu \text{F}$	0657223	2B, C
TR201		0305571	1 C
TR202	2SC380A(O)	0305571	1 C
TR203	2505007((0)	0305571	10
TR204	ń	0305791	2 C
TR205	2SC930 (D)	0305791	2 B
TR206	J 250,00 (b)	0305791	2 B
IC201	0.555	0360070	1 C
IC202	μPC555A	0360070	1 B
IC203		0360070	1 A
D201	h	0310330	1 B
D201 D202	IN60	0310330	1 B
D202 D203	5	0311016	1 A
D203 D204	N60P	0311016	1 A
	r		

w	X	Υ	Z
D205	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0310330	2 C
D206		0310330	2 C
D207		0310330	1B, C
D 208	N60	0310330	1 B
D209		0310330	1 B
D ₂₁₀		0310330	1 A
D211		0310330	2 B
D212	DS430	0340090	2 A
T 201	1	4235860	1 B
T202		4235750	1 A
T203	FM IF Coil	4235760	1 A
T204	(4235840	2 B
T205		4235920	2 B
L 201	3.3 µF Micro Inductor	4900100	2 C
L201	33mH Micro Inductor	4900180	2 A
CF201		0910182	10
CF201		0910182	1 C
CF202	SFE10.7MD	0910182	1 C
CF203		0910182	1 B
TC201	10pf Ceramic Trimmer Capacitor	1230050	2 C
1 C201	F-1419 Printed Circuit Board	2520350	

Abbreviations

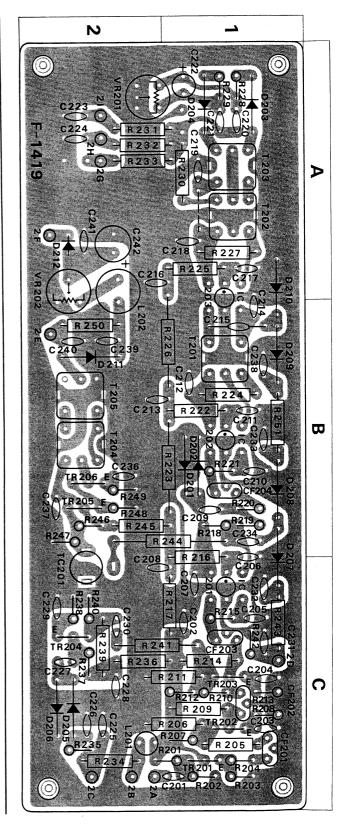
CR : Carbon Resistor

CeR: Cement Resistor

CC : Ceramic CapacitorEC : Electrolytic Capacitor

MC : Mylar Capacitor

SC : Styrol Capacitor



PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

FM MPX BLOCK <F-1420E>

	Stock No. 754075					
W		X		Y	Z	
R401	lkΩ	1		0106102	2 C	
R402	lkΩ			0106102	1 B	
R403	68kΩ			0106683	2 C	
R404	220k Ω			0106224	1 C	
R405	68kΩ			0106683	10	
R406	22kΩ			0106223	10	
R407	1.2k Ω			0106122	1 C	
R408	150kΩ			0106154	1 C	
R 409	10kΩ			0106103	2 C	
R 410	33kΩ			0106333	2 C	
R411	47kΩ			0106473	2 C	
R412	33kΩ			0106333	2B, C	
R 413	470Ω			0106471	2 B	
R414	3.3k Ω			0106332	2 C	
R 415	100kΩ			0106104	2 B	
R416	10kΩ			0106103	2 B	
R417	10kΩ			0106103	2 B	
R 418	100kΩ			0106104	2 B	
R419	100kΩ			0106104	2 B	
R420	1CkΩ			0106103	1,2B	
R421	10kΩ			0106103	1 B	
R422	100kΩ			0106104	1 B	
R423	68kΩ			0106683	2 B	
R424	100kΩ			0106104	2 A	
R425	100kΩ			0106104	1, 2 A	
R426	15kΩ		İ	0106153	1A, B	
R427	15kΩ			0106153	1 B	
R428	100Ω	± 5% 1/4W	CR.	0106101	2 A	
R429	10kΩ	7	J	0106103	2 A	
R430	10kΩ			0106103	1 A	
R431	470Ω			0106471	2 A	
R432	470Ω			0106471	1 A	
R433	1.5kΩ		1	0106152	1 A	
R434	10kΩ			0106103	1 A	
R435	10kΩ			0106103	2 A	
R436	1ΜΩ			0106105	3 A	
R437	1ΜΩ			0106105	3 A	
R438	2.2kΩ			0106222	1 C	
R439	33kΩ		- 1	0106333	2 C	
R440	6.8kΩ			0106682	2 C	
R441	3.3kΩ			0106332	3 C	
R442	33 Ω			0106330	3 C	
R443	1kΩ			0106102	2, 3 C	
R444	47kΩ			0106473	3 C	
R445	22kΩ		1	0106223	3 C	
R446	47kΩ		1	0106473	3 C	
R447	47kΩ			0106473	2 B	
R448	22kΩ			0106223	2 C	
R449	22kΩ			0106223	3 B , C	
R450	8.2kΩ			0106822	3 B	
R451	47 Ω			0106470	3 B	
R452	1.5kΩ			0106152	2, 3 B	
	1 . 1			0106101	2, 3 B	
R453	100Ω					
R454	100kΩ			0106104	3 B	
R455	120kΩ)			0106124	3 B	

W	X			Y	Z
R456	47Ω)			0106470	3 A , B
R457	3.3kΩ			0106332	3 A
R 458	$ 10k\Omega\rangle \pm 5\%$	1/4 W	CR.	0106103	2, 3 A
R459	4.7kΩ			0106472	3 A
R460	47Ω <i>)</i>			0106470	2, 3 A
VR401 VR402	$1 \mathrm{k} \Omega$ (B) Stereo Se 220 $\mathrm{k} \Omega$ (B) Muting A		on Adj.	1035070 1035210	1 B 3 B, C
C401	10 <i>μ</i> F	25٧	EC.	0513100	2 C
C402	47 pF ±10%	50V	CC.	0660470	2 C
C403	$0.047 \mu F \pm 10\%$	50V	MC.	0601477	1 C
C404	6800 pF ± 5 %	50V	SC.	0629001	1B,C
C405	$0.047 \mu F \pm 10\%$	50V	MC.	0601477	2, 3 C
C406	47 μF	6.3V	EC.	0510470	2 B
C407	10μF)	0.0		0513100	1 B
C408	10μF)	257	EC.	0513100	2 A , B
C408	1	14\/	EC.	1	1 A , B
	47 μF	167		0512470	1
C410	10μF	25٧	EC.	0513100	1 B
C411	47 μF	167	EC.	0512470	1 B
C412	$0.0068 \mu F$ $\pm 5 \%$	50∨	MC.	0600686	2 A
C413	0.0068μF)			0600686	2 A
C414	100 <i>μ</i> F	25∀	EC.	0513101	2 A
C415	$0.047 \mu F$ $\pm 10\%$	50V	MC.	0601477	3 A
C416	0.047 μF) - 1076	301	MC.	0601477	3 A
C417	220 pF ± 5 %	50∨	SC.	0620221	2 C
C418	1000 pF)			0620102	2 C
C419	$100 pF \rangle \pm 5 \%$	5 0 V	SC.	0620101	2 C
C420	680 pF			0620681	3 C
C421	1 μF	50V	EC.	0515109	3 C
C422	0.15 μF)			0601158	3 C
C423	$0.047 \mu F \rangle \pm 10\%$	50V	MC.	0601477	3 C
C424	0.047 μF			0601477	3 C
C425	$0.022 \mu F + \frac{80}{-20}\%$	50∨	CC.	0657223	3 B
C426	100μF	25V	EC.	0513101	2 B
C427	10μF	167	EC.	0512100	3 B
C428	$0.022 \mu F + \frac{80}{-20}\%$	5 0 V	CC.	0657223	3 B
C429	$3.3\mu\text{F}$	00,	· · · ·	0513339	3 B
C429	100 μF)	25V	EC.	0513101	2, 3 B
C435	3.3 µF	251	LC.		2, 3 6
				0513339	
C436 C437	$0.0012\mu F$ $\pm 5\%$	50V	MC.	0600126	
	0.0012μF) = 0,00			0600126	
TR401	2SC871R(F)			0305475	1 C
TR402	2SC711 (E, F)			0305731, 2	1 C
TR403	2SC678 (6)			0300291	2 B
TR404)			0305475	2 A
TR405	2SC871R(F)			0305475	1 A
TR406)			0305475	1 A
TR407	000(244(1)			0305891	3 A
TR408	2SC634A(6)			0305891	3 A
TR409	2SC711 (E, F)			0305731, 2	2, 3 C
TR410	2SC634A(6)			0305891	3 B , C
TR411	1			0305733	3 C
TR412	2SC711 (G)			0305733	3 B
TR412				0305733	2B, C
TR413	2SC735 (Y)			0305641	3 B , C
			1	0000071	35,0

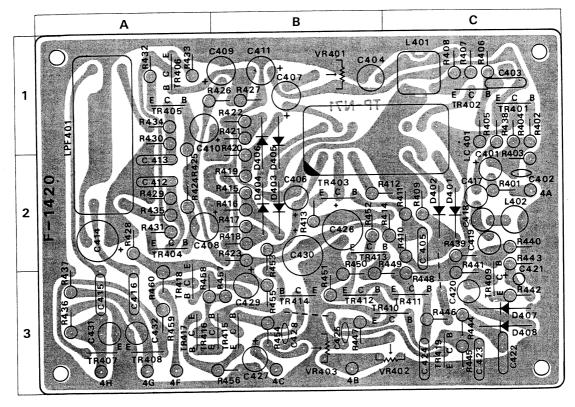
w	X	Y	Z
TR415	1	0305731, 2	3 B
TR416	, 2SC711 (E, F)	0305731, 2	3 B
TR417		0305731, 2	3 A
TR418	2SA678 (6)	0300291	2, 3 A
TR419	2SC634A (6)	0305891	3 C
D401		0310400	2 C
D402	IN34A	0310400	2 C
D403	ĺ	0311180 or 0311160	2 B
D404		0311180 or 0311160	2 B
D 405	S1588 or IS2473	0311180 or 0311160	1, 2 B
D406		0311180 or 0311160	1,2B
D407	j	0310400	3 C
D408	IN34A	0310400	3 C
L401	SLV-40S MPX Coil	4240510	1 C
L402	4.7mH ± 5 % Micro Inductor	4900170	2 C
LC401	SMU-203S LC Unit	4240490	1,2BC
	F-1420 Printed Circuit Board	2540280	

LAMP HOLDER BLOCK $\langle F\text{-}1374 \rangle$ Stock No. 7590810

w	X	Y
R 028	18Ω ± 5 % ¼W CR.	0107180
	Fuse Holder pin(× 10)	2310050
	F-1374 Printed Circuit Board	2590750

TERMINAL BLOCK <F-1451>

W	X	Y
R025 R026	$\left. \begin{array}{c} 3.3 \text{k}\Omega \\ 3.3 \text{k}\Omega \end{array} \right\} \; \pm \; 5 \; \% \ \ \frac{1}{4} \text{W} \text{CR}.$	0107332 0107332
	F-1451 Printed Circuit Board	2591220



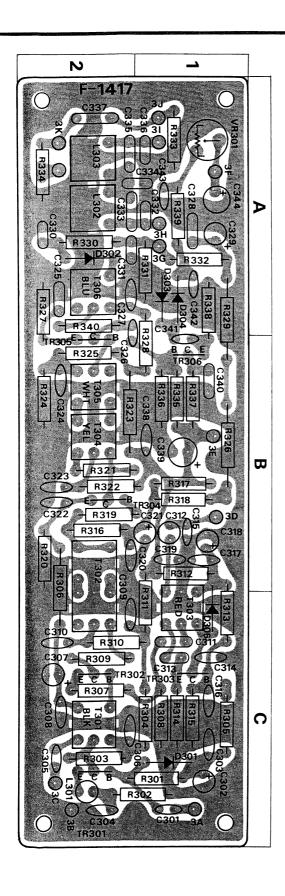
PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

AM BLOCK <F-1417A>

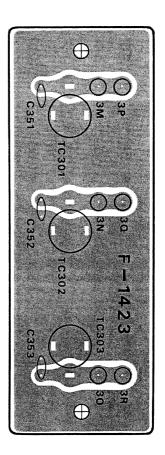
	Stock No. 753026			
W	X		Y	Z
R 301	10kΩ)		0107103	1,2C
R302	lkΩ		0107102	1, 2 C
R303	3.3kΩ		0107332	2 C
R304	100Ω		0107101	1 C
R305	10kΩ		0107103	1 C
R306	$10k\Omega$		0107103	2B, C
R307	22Ω		0107220	2 C
R308	1k Ω		0107102	10
R309	470Ω		0107471	2 C
R 310	100Ω		0107101	1, 2 C
R311	47.Ω		0107470	1 B , C
R312	1kΩ		0107102	1 B
R313	22kΩ		0107223	1B,C
R314	1kΩ		0107102	10,0
R314 R315	3.3kΩ		0107332	10
R316	1kΩ		0107102	2 B
R316	150kΩ		0107102	1 B
R317 R318	5.6kΩ		0107154	1 B
	10kΩ		0107382	2 B
R319	$ 1.5k\Omega\rangle \pm 5$	% ¼W (on	İ
R320	1.5222	/411	0107102	2 B
R321	100kΩ		0107104	2 B
R322	100Ω		0107101	2 B
R323	47Ω		0107470	2 B
R324	4.7kΩ		0107472	2 B
R325	10kΩ		0107103	2 B
R326	1.8kΩ		0107182	1 B
R327	lkΩ		0107102	2 A
R328	100Ω		0107101	1 A B
R329	1.8kΩ		0107182	1 A , B
R330	1kΩ		0107102	1 A
R331	10kΩ			1 A
R332	18kΩ		0107183	
R333	10kΩ		0107103	1 A 2 A
R334	47kΩ		0107473	
R335	15kΩ		0107153	1 B
R336	22kΩ		0107223	1 B
R337	100Ω		0107101	1 B 1 A . B
R338	2.2kΩ		0107222	
R339	1kΩ		0107102	1 A 2 A
R340	100Ω)		0107101	2 A
VR301	10k Ω (B) AM	Meter Adj.	1035130	1 A
C301	0.022μ F $^{+80}_{-20}\%$	25V C	C. 0656223	1 C
C302	1 μF	50V EC	0515109	1 C
C303	0.047 μF)		0656473	1 C
C304	0.047.15		0656473	2 C
C305	$0.047 \mu F$ $+80 \%$ $0.022 \mu F$ (-20%)	25V C	C. 0656223	2 C
C306	$0.047 \mu F$		0656473	2 C
C307	1 μΕ	50V EC		2 C
C308	$0.047 \mu\text{F}$		0656473	2 C
C309	$0.047 \mu F \left. \begin{array}{c} +80 \% \\ -20 \% \end{array} \right.$	25V C	1 1	2 C
	$0.047 \mu\text{F}$		0656473	2 C
C310	0.0 T/ par /			
C310 C311	$0.047 \mu\text{F}$ $\pm 10\%$	6 50V M	1	1 C

		1	T
W	X	Y	Z
C 313	$0.01 \mu F \pm 10\%$ 50V MC.	0601107	10
C314	$\frac{10 \text{pF}}{20 \text{m}}$ $\pm 10\%$ 50V CC.	0660100	1 C
C 315	22 pF) = 1070 301 CC.	0660220	1 B
C 316	$\begin{pmatrix} 0.047 \mu\text{F} \\ 0.047 \mu\text{F} \\ -20\% \end{pmatrix} = 25 \text{V} \text{ CC.}$	0656473	1 C
C 317	$0.047 \mu \text{F}$ -20^{70} 257 CC.	0656473	1 B
C 318	10 μF 16V EC.	0512100	1 B
C319	$\begin{pmatrix} 0.047 \mu\text{F} \\ 0.047 \mu\text{F} \\ -20\% \end{pmatrix}$ 25V CC.	0656473	1 B
C320	$0.047 \mu \text{FJ} = 20^{75}$	0656473	2 B
C321	1μF 50V EC.	0515109	1 B
C322	0.047μF	0656473	2 B
C323	$0.047 \mu F \left(+80\% \right)$ 25V CC.	0656473	2 B
C324	0.047 [2.1	0656473	2 B
C325	0.047 μF)	0656473	2 A
C326	47 pF ±10% 50V CC.	0660470	2 A , B
C327	$\begin{pmatrix} 0.047 \mu F \\ 0.047 \mu F \\ -20\% \end{pmatrix}$ 25V CC.	0656473	2 A
C328	0.0 17 2.7	0656473	1 A
C329	4. 7μF 25V EC.	0513479	1 A
C330	0.0047μF	0601476	2 A
C 331	0.0033μF	0601336	2 A
C332	0.0068μF	0601686	1 A
C333	$0.0047 \mu F$ $\pm 10\%$ 50V MC.	0601476	2 A
C334	0.01 μF	0601107	1,2A
C335	0.01 μF	0601107	2 A
C336	0.01 μF	0601107	1 A
C337	0.047μF J	0601477	2 A
C338	$0.047 \mu F + \frac{80}{20}\%$ 25V CC.	0656473	1 B
C339	47μF 16V EC.	0512470	1 B
C340	0.047μF	0656473	1 B
C341	$0.022 \mu F \begin{cases} +80 \% \\ -20 \% \end{cases}$ 257 CC.	0656223	1 B
C342	$0.022\mu F$	0656223	1 A
C 343	0.022 <i>μ</i> F)	0656223	1 A
TR 301	2SC403C(4)	0305992	2 C
TR302	2304030(4)	0305992	2 C
TR303	2SC403C(3)	0305991	1 C
TR304	2SC403C(4)	0305992	1 B
TR305) 2004000(4)	0305992	2 B
TR306	2SC403C(3)	0305991	1 B
D 301	1N60	0310332	1 C
D302	1S1007	0311090	2 A
D303	1,1,10	0310332	1 A
D304	} 1N60	0310332	1 A
D305	1S1 <i>555</i>	0311040	1 C
T 301	2G-054 AM RF Coil	4210180	2 C
T302	YEL-455E ₂ Ceramic Filter	0910180	2B, C
T303	2G-017 AM OSC Coil	4220480	1 A , B
T304	IG-058)	4230590	2 B
T305	IG-059 AM IF Coil	4230600	2 B
T306	IG-057	4230580	2 A
L301	3.3 µH Micro Inductor	4900100	2 C
L302	h ·	4290200	2 A
L303	95mH Filter Coil	4290200	2 A
	F-1417 Printed Circuit Board	2530160	



AM TRIMMER BLOCK $\langle F\text{-}1423 \rangle$ Stock No. 7591280

w	X	Y
C351 C353	10 pF ±10% 50V CC.	0660100 0660100
TC301 TC302 TC303	20 pF 20 pF 20 pF	1230060 1230060 1230060
	F-1423 Printed Circuit Board	2591280



METER POINTER ILLUMINATION BLOCK (F-2068) Stock No. 7591450

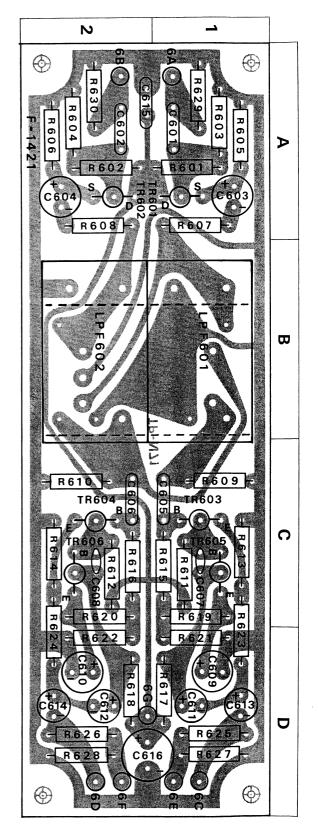
w	X	Y
R 031 (032)	10Ω \pm 5 $\%$ $\frac{1}{4}$ W Fuse Resistor	0191100
PL011 (013) PL012 (014)	5V 60mA Lamp 6V 60mA Lamp	0400100, 1 0400100, 1
	F-2068 Printed Circuit Board	2591420

PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

FILTER BLOCK (F-1421)

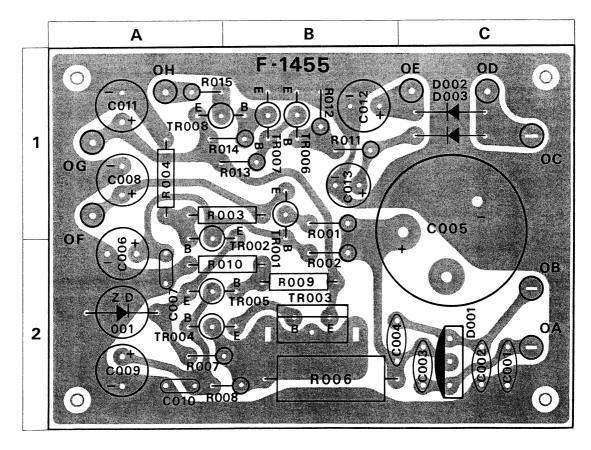
		Stock No. 7	
W	X	Y	Z
R601	1ΜΩ)	0107105	1 A
R602	1ΜΩ	0107105	2 A
R603	1ΜΩ	0107105	1 A
R604	1ΜΩ	0107105	2 A
R605	$4.7k\Omega$	0107472	1 A
R606	4.7kΩ	0107472	2 A
R607	2.2kΩ	0107222	1 A
R608	2.2 k Ω	0107222	2 A
R609	3.3kΩ	0107332	1 C
R610	3.3kΩ	0107332	2 C
R611	100kΩ	0107104	1 C
R612	100kΩ	0107104	2 C
R613	2.2kΩ	0107222	1 C
R614	2.2kΩ	0107222	2 C
R615	$100k\Omega \rangle \pm 5\% \% $ W C	CR. 0107104	1 C
R616	100kΩ	0107104	2 C
R 617	6.8kΩ	0107682	1 D
R 618	6.8kΩ	0107682	2 D
R 619	1.2kΩ	0107122	1 C
R620	1.2kΩ	0107122	2 C
R 621	560Ω	0107561	1 D
R622	560Ω	0107561	2 D
R623	8.2kΩ	0107822	1C, D
R624	8.2kΩ	0107822	2C, D
R625	47kΩ	0107473	1 D
R626	47kΩ	0107473	2 D
R627	22kΩ	0107223	1 D
R628	22kΩ	0107223	2 D
R629	1ΜΩ	0107105	2 D
R630	1ΜΩ)	0107105	2 A
C601	$0.15\mu^{\rm F}$ $\pm 10\%$ 50V M	1C. 0601158	1 A
C602	0.15μF) = 1075 Co. 1.	0601158	2 A
C603	$33\mu F$ 25V E9	C. 0513330	1 A
C604	33μF)	0513330	2 A
C605	$0.15 \mu F$ $\pm 10\%$ 50V M	1C. 0601158	1 C
C606	0.15μF)	0601158	2C
C607	$\frac{47 \text{pF}}{17.5} \pm 10\%$ 50V C	C. 0660470	1 C
C608	4/ pr)	0660470	2 C
C609	$100 \mu F$ 6.3V E	C. 0510101	1 D
C610	100 μF J	0510101	2 D
C611	10μΕ)	0513100	1 D
C612	$10\mu\text{F}$ 25V E	C. 0513100	2 D
C613	10μ	0513100	1 C
C614	10 μF /	0513100	2 D
C615	•	IC. 0601477	2 A
C616	100 μF 25V E	C. 0513101	1,2D
TR601	2SK30 (GR)	0370103	1 A
TR602	J 25.105 (2.17)	0370103	2 A
TR603		0305475	1 C
TR604	2SC871R(F)	0305475	2 C
TR605	1/25507.11(1)	0305475	1 C
TR606	ľ	0305475	2 C
LPF601	BL-13 Low Pass Filter	0910190	1 B
LPF602)	0910190	2 B
	F-1421 Printed Circuit Boo	ard 2591190	1



POWER SUPPLY BLOCK $\langle F\text{-}1455 \rangle$ Stock No. 7500710

W	x		Y	Z
R 001	22Ω)		0106220	1 B
R 002	$4.7k\Omega \pm 5\%$	⅓W CR.	0106472	2 B
R 003	39kΩ (- 3 / 8	/4 VV CR.	0107393	1 A
R 004	18kΩ)		0107183	1 A
R 006	150Ω ±10%	2W CeR.	0182151	2 A , B
R 007	3.3kΩ)		0106332	2 A
R 008	10kΩ		0106103	2 A
R 009	10kΩ		0107103	2A, B
R 010	12kΩ		0107123	2 A
R 011	$5.6k\Omega / \pm 5\%$	$\frac{1}{4}$ W CR.	0106562	1 B
R 012	5.6kΩ		0106562	1 B
R 013	100kΩ		0106104	1 A
R 014	10kΩ		0106103	1 A
R 015	4.7kΩ)		0106472	1 A
C 001	0.0047 <i>μ</i> F)		0659010	2 B
C002	$0.0047 \mu F$ $+80\%$	500V CC.	0659010	2 B
C003	$0.0047 \mu F \left(-20^{20} \right)$	300V CC.	0659010	2 B
C004	0.0047μF		0659010	2 B
C ₀₀₅	1000μF	50V EC.	0549104	1, 2 B
C 006	100 <i>μ</i> F	25V EC.	0513101	1, 2
C 007	$0.01 \mu F \pm 10\%$	50V MC.	0601107	2 A

W	X	Y	Z
C008	100 <i>μ</i> F 25V EC.	0513101	1 A
C009	100μF 16V EC.	0512101	2 A
C 010	$0.022 \mu F \pm 10\%$ 50V MC.	0601227	2 A
C 011	100μ F 16V EC.	0512101	1 A
C 012	220μF 10V EC	0511221	1 B
C 013	3.3μ F 50V EC.	0515339	1 B
TR001	2SD330 (E, F)	0308362, 3	1,2A
TR002	2SC711 (E, F)	0305731, 2	1, 2 A
TR003	2SD313 (E, F)	0308392, 3	2A, B
TR004		0305731, 2	2 A
TR005		0305731, 2	2 A
TR006	2SC711 (E, F)	0305731, 2	1 A
TR007)	0305731, 2	1 A
TR008	2SA678(6)	0300291	1 A
D001	10DC-1	0310680	2 B
D002)	0310340	1 B
D003	} 10D-1	0310340	1 B
ZD001	ZD1-5	0315570	2 A
	F-1455 Printed Circuit Board	2500600	



OTHER PARTS AND THEIR LOCATION ON CHASSIS

W: Parts No. X: Parts Name Y: Stock No.

OTHER PARTS

W	X	Y
R021	1.2kΩ]	0107122
R022	1.2kΩ	0107122
R023	$4.7 \mathrm{k}\Omega$ $\rangle \pm 5\%$ ½W CR.	0107472
R024	100kΩ	0107104
R024	1.8kΩ	0107182
11027	1.0.427	0.00.00
VR001	$20k\Omega$ (B) X2 Output Level Adj.	1010810
VR002	100k Ω (B) Muting Level Adj.	1005041
C021	$0.0022 \mu F \pm 10\%$ 50V MC.	0601226
C022	0.0047μ F $+80\%$ 250V MC.	0659802
C023	$0.0047 \mu F$ $+80\%$ 250V MC.	0659801
C 024	100μF 6.3V E.C.	0510101
PT001	Power Transformer	4001191
Toos	2000 : 750 P. L.	4290021
T001	300Ω : 75Ω Baloon	4290021
T002	AM Bar Antenna	4200540
L001		4900140
L002	} 1 μH Micro Inductor	4900140
L003)	4900140
M001	S 2 Signal Mater	4300580
M002	S-3 Signal Meter T-3 Tuning Meter	4300590
771002	1-5 Tolling Merel	
S 1	Selector Switch Y-2-7-3	1102200
S 2	Power Switch	1170310
Sз	Muting Switch	1170270
S4	Noise Suppressor Switch	1170270
CO001	AC Outlet	2450040
F001	250V 1A Power Fuse (100/117V)	0431222
	250V 0.5A Power Fuse (220/240V)	0431212
	Fuse Holder	2300020
Foi	250V 4A)	0432890
F02	1	0432810
	250V 0.5A \ Wired-in-Fuse	0432810
F03	250V 0.5A) F-2026 Printed Circuit Board	2591370
PL001		0420040
PL002		0420040
PL003	7V 330mA Dial Scale Lamp	0420040
PL004	· ·	0420040
PL005	Ŋ.	0420040
PL006	7V 330mA Signal Meter Lamp	0420040
PL007	Tuning Merer Lamp	0420040
PL008	7V 160mA FM Indicator	0400170
PL009	AM Indicator	0400170
PL 010	6V 75mA Dial Pointer Lamp	0400200
PLo11	6V 100mA Stereo Indicator	0400161
	Lamp Socket (× 2)	2310080
	Bawas Cord	200000
	Power Cord	3800020 2110060
	Lup Board	2110000

W	×	Y
PU001	Voltage Selector Socket	2410080
	Voltage Selector Plug	2410090
	PA 5331 U07 FM Frontend	7510570
	F-1449 FM IF Unit	7520580
	F-1420E FM MPX Unit	7540750
	F-1417A AM Unit	7530260
	F-1423 AM Trimer Unit	7591280
	F-1421 Filter Unit	7591290
	F-1455 Power Supply Unit	7500710
	F-1451 Terminal Unit	7591220
	F-1374 Lamp Holder Unit	7590810
	F-2068 Meter Pointer Illumination Unit(x2)	7591450

